

Attachment to Interview Summary



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Examiner Michael Chao	USPTO - Art Unit 2442	(571) 270-6657	(571) 270-5657

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Examiner Chao:

Please call me regarding the attached.

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Sincerely,

/Robert L. Hails/

Robert L. Hails (Reg. No. 39,702)

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DRAFT

Application Serial No.: 10/584,904

Attorney Docket No. 11884/495701

AMENDMENTS TO THE CLAIMS

We propose to amend the claims as shown below.

1. (Currently Amended) A computer implemented method of assigning objects to processing units of a cluster, a plurality of processing units, each one of the objects having an object size and an object load, each one of the processing units having a storage capacity and a load capacity, the method comprising:

a) for each of the processing units, setting a storage capacity threshold and a load capacity threshold to initial values according to actual storage capacity and load capacity of the respective processing units;

~~[[a]]~~ b) calculating an index value of each object based on the object's size and the object's load; ~~for each one of the objects;~~

~~[[b]]~~ c) sorting the objects by their index values to provide a sequence of objects;

~~[[c]]~~ d) for each selected processing unit, ~~of the cluster~~

assigning one or more as many of the objects in sequence to the processing unit in sequential order as fit within the storage capacity threshold and the load capacity threshold of the respective processing unit, the objects being assigned in sequence until a remaining storage capacity and a remaining load capacity of the processing unit is too small for any of the remaining objects of the sequence; and

removing the assigned object(s) from the sequence;

e) revising the storage capacity threshold and load capacity threshold to new values based on a total number of the processing units to which objects are assigned and unused capacity of the number of processing units; and

d) determining a load and capacity balance between the processing units of the cluster, the determining comprising:

determining a first threshold and a second threshold of each of the processing units based on a number of the processing units;

calculating a new remaining storage capacity as a difference between the first threshold and an aggregated size of objects assigned to the processing unit;

calculating a new remaining load capacity as a difference between the second threshold and an aggregated load of objects assigned to the processing unit; and

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[[e]] f) performing step [[1 c]] d) again with using the revised the new remaining storage capacity threshold and the revised new remaining load capacity threshold.

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1. (Currently Amended) A computer implemented method of assigning objects to a plurality of processing units, each of the objects having an object size and an object load, the method comprising:

a) for each of the processing units, setting a storage capacity threshold and a load capacity threshold to initial values according to actual storage capacity and load capacity of the respective processing units;

b) calculating an index value of each object based on the object's size and the object's load;

c) sorting the objects by their index values to provide a sequence of objects;

d) for each selected processing unit,

assigning as many of the objects to the processing unit as fit within the storage capacity threshold and the load capacity threshold of the respective processing unit, the objects being assigned in sequence, and

removing the assigned object(s) from the sequence;

e) revising the storage capacity threshold and load capacity threshold to new values based on a total number of the processing units to which objects are assigned and unused capacity of the number of processing units; and

f) performing step d) again using the revised storage capacity threshold and the revised load capacity threshold.